# Author index to volume 69

Aiani, K.E. and J.S. Hutchinson, Evaluation of overlap matrix elements by the transfor-	
mation method (HEG)	69 (1992) 46
Anzai, Y., see K. Shida	69 (1992) 317
Barb, F.D., O. Netoiu, M. Sorescu and M. Weiss, SPECFIT - an interactive package for	
Mössbauer spectra fitting with personal computers	69 (1992) 182
Berg, B.A., Double jackknife bias-corrected estimators	69 (1992) 7
Berg, B.A., Monte Carlo calculation of confidence limits for realistic least square fitting	69 (1992) 65
Beltrán-López, V. and L. González-Tovany, POWDERSPEC, a program for efficient simulation of isotropic EPR spectra	69 (1992) 397
Bhattacharya, R., D. Roy and S. Bhowmick, Finding roots using divergent functional	09 (1992) 397
iteration	69 (1992) 339
Bhowmick, S., see R. Bhattacharya	69 (1992) 339
Bledowski, A., see J. Otten	69 (1992) 187
Block, M.M., Monte Carlo phase space evaluation	69 (1992) 459
Bocko, J., EQSHELL – a REDUCE-based program for generation of equations of	0) (1))2) 43)
equilibrium for shells	69 (1992) 215
Bondeson, A., see H. Lütjens	69 (1992) 287
Boutros, E., see H.A. Yousif	69 (1992) 406
Brackbill, J.U., see H.X. Vu	69 (1992) 253
Buneman, O., see J. Villasenor	69 (1992) 306
Burke, P.G., see V.M. Burke	69 (1992) 76
Burke, V.M., P.G. Burke and N.S. Scott, A new no-exchange R-matrix program	69 (1992) 76
Chang, CH. and JX. Wang, A general method for calculating principal value integrals	
numerically in an N-dimensional region	69 (1992) 330
Charchuła, K., The package PAKPDF 1.1 of parametrizations of parton distribution	40 (4000) A40
functions in the proton	69 (1992) 360
Chilingarian, A.A., Dimensionality analysis of multiparticle production at high energies	69 (1992) 347
De Nijs, J.M.M., see M.H.W. Verbruggen	69 (1992) 201
Evans, G.A., Computing time-dependent eddy currents in tokamaks	69 (1992) 243
Ezawa, Y., T. Hayashi, M. Kikugawa, J. Kodaira, T. Muta, R. Najima, J. Saito, S. Wakaizumi, T. Watanabe, T. Yano and M. Yonezawa, Brown-Feynman reduction of	
one-loop Feynman diagrams to scalar integrals with orthonormal basis tensors	69 (1992) 15
Flyvbjerg, H., see F. Larsen	69 (1992) 59
Formaleoni, G., see C. Oleari	69 (1992) 112
Frosch, W.R., see A.A. Sonzogni	69 (1992) 429

Ghosh, S., see M. Hossain  Gibbon, P. A numerical model of the plasma best ways constants.	69 (1992) 1
Gibbon, P., A numerical model of the plasma beat-wave accelerator González-Tovany, L., see V. Betrán-López	69 (1992) 299
Graudenz, D., Calculation of long traces of $\gamma$ -matrices in the dimensional regularization	69 (1992) 397
scheme	69 (1992) 173
Gravielle, M.S. and J.E. Miraglia, Some Nordsieck integrals of interest in radiation and	09 (1992) 173
atomic collision thoeries	69 (1992) 53
Han, J.H. and J.N. Leboeuf, Particle simulation model of the Lorentz collision operator	
in guiding-center plasmas	69 (1992) 277
Hayashi, T., see Y. Ezawa	69 (1992) 15
Hockney, R.W., Book review	69 (1992) 487
Hossain, M., W.H. Matthaeus and S. Ghosh, On computing high order Galerkin	
products	69 (1992) 1
Høye, J.S., see E. Lomba	69 (1992) 420
Hutchinson, J.S., see K.E. Aiani	69 (1992) 46
James, F., Erratum notice. A review of pseudorandom number generators	69 (1992) 486
Karimäki, V., Fast code to fit circular arcs	69 (1992) 133
Kikugawa, M., see Y. Ezawa	69 (1992) 15
Kodaira, J., see Y. Ezawa	69 (1992) 15
Kumano, S. and J.T. Londergan, A FORTRAN program for numerical solution of the Altarelli-Parisi equations by the Laguerre method	69 (1992) 373
Kwiatkowski, A., H. Spiesberger and HJ. Möhring, HERACLES: an event generator for ep interactions at HERA energies including radiative processes	69 (1992) 155
Larsen, F. and H. Flyvbjerg, Efficient evaluation of Feynman diagrams on lattices	69 (1992) 59
Leboeuf, J.N., see J.H. Han	69 (1992) 277
Lomba, E. and J.S. Høye, HNCR - a program to calculate the structure and thermody-	
namics of binary mixtures of charged hard spheres	69 (1992) 420
Londergan, J.T., see S. Kumano	69 (1992) 373
Lütjens, H., A. Bondeson and A. Roy, Axisymmetric MHD equilibrium solver with	
bicubic Hermite elements	69 (1992) 287
MacLeod, A.J., The numerical computation of transport integrals	69 (1992) 229
Matthaeus, W.H., see M. Hossain	69 (1992) 1
Miraglia, J.E., see M.S. Gravielle	69 (1992) 53
Möhring, HJ., see A. Kwiatkowski	69 (1992) 155
Morales, J.J. and M.J. Nuevo, Comparison of link-cell and neighbourhood tables on a	0) (1))2) 100
range of computers	69 (1992) 223
Morrison, T.P., POP – an interactive charged particle transport system design tool	69 (1992) 477
Moses, G.A., see O. Yasar	69 (1992) 439
Muta, T., see Y. Ezawa	69 (1992) 15
Najima B. saa V. Ezawa	69 (1992) 15
Najima, R., see Y. Ezawa Narayanan, K.S.S., Comment on a paper by K.J.F. Gaemers (Comput.Phys.Commun.	09 (1992) 13
22(1981)115)	69 (1992) 73
Nassiff, S.J., see A.A. Sonzogni	69 (1992) 429
Netoiu, O., see F.D. Barb	69 (1992) 182
Nuevo, M.J., see J.J. Morales	69 (1992) 223
	(

Oleari, C. and G. Formaleoni, $(\theta, \delta)$ uniform-scale chromaticity diagram Otten, J., A. Bledowski, K.H. Ringhofer and R.A. Rupp, Dynamical holographic storage	69 (1992) 112
in photorefractive crystals	69 (1992) 187
Ringhofer, K.H., see J. Otten	69 (1992) 187
Romo, A.S.M.A., see A.A. Sonzogni	69 (1992) 429
Rössler, U., see J. Schmitz	69 (1992) 369
Roy, A., see H. Lütjens	69 (1992) 287
Roy, D., see R. Bhattacharya	69 (1992) 339
Rupp, R.A., see J. Otten	69 (1992) 187
Saito, J., see Y. Ezawa	69 (1992) 15
Schmitz, J., HR. Trebin and U. Rössler, TRSS: a new version of program TRS for a	
different geometry	69 (1992) 369
Scott, N.S., see V.M. Burke	69 (1992) 76
Sharan, P., Symbolic computation of Wigner-Kirkwood expansion to $\mathcal{O}(\hbar^8)$	69 (1992) 235
Shida, K. and Y. Anzai, Reduction of the event-list for molecular dynamic simualtion	69 (1992) 317
Sonzogni, A.A., A.S.M.A. Romo, W.R. Frosch and S.J. Nassiff, A code to determine the energy distribution, the incident energy and the flux of a beam of light ions into a	
stack of foils	69 (1992) 429
Sorescu, M., see F.D. Barb	69 (1992) 182
Spiesberger, H., see A. Kwiatkowski	69 (1992) 155
Spiesberger, II., see A. Kwiatkowski	09 (1992) 133
Takada, K., Programs for algebraic calculation of angular momentum coupling	69 (1992) 142
Taubmann, G., Parabolic cylinder functions $U(n,x)$ for natural n and positive x	69 (1992) 415
Trebin, HR., see J. Schmitz	69 (1992) 369
Verbruggen, M.H.W. and J.M.M. de Nijs, Analysis of spectroscopic ellipsometric mea-	
surements	69 (1992) 201
Villasenor, J. and O. Buneman, Rigorous charge conservation for local electromagnetic field solvers	69 (1992) 306
	09 (1992) 300
Vu, H.X. and J.U. Brackbill, CELEST1D: an implicit, fully kinetic model for low-frequency, electromagnetic plasma simulation	69 (1992) 253
Wakaizumi, S., see Y. Ezawa	60 (1002) 15
Wang, JX., see CH. Chang	69 (1992) 15 69 (1992) 330
Watanabe, T., see Y. Ezawa	69 (1992) 15
Weese, J., A reliable and fast method for the solution of Fredholm integral equations of	09 (1992) 13
the first kind based on Tikhonov regularization	69 (1992) 99
Weiss, M., see F.D. Barb	69 (1992) 182
Weiss, W., see T.D. Bato	09 (1992) 102
Yano, T., see Y. Ezawa	69 (1992) 15
Yasar, O. and G.A. Moses, R-MHD: an adaptive-grid radiation-magnetohydrodynamics	
computer code	69 (1992) 439
Yonezawa, M., see Y. Ezawa	69 (1992) 15
Yousif, H.A. and E. Boutros, A FORTRAN code for the scattering of EM plane waves	
by an infinitely long cylinder at oblique incidence	69 (1992) 406

# Program index to volume 69

Atomic	physics

Burke, V.M., P.G. Burke and N.S. Scott
RMATRIX NX (Fortran, 15986 lines). A new no-exchange *R*-matrix program ACGP 69 (1992) 76
Beltrán-López, V. and L. González-Tovany
POWDERSPEC (Fortran, 3725 lines). POWDERSPEC, a program for efficient simulation of isotropic EPR spectra

ACGX 69 (1992) 397

#### Computational methods

Weese, J. FTIKREG (Fortran, 4343 lines, Manual 27 pages). A reliable and fast method for the solution of Fredholm integral equations of the first kind based on Tikhonov regularization ACGH 69 (1992) 99 Karimäki, V. CIRCLEFIT (Fortran, 586 lines). Fast code to fit circular arcs ACBZ 69 (1992) 133 Takada, K. KENTARO/KENJIRO (Fortran, 7058 lines). Programs for algebraic calculation of angular momentum coupling ACGB 69 (1992) 142 Graudenz, D. DTRACE (C, 3000 lines). Calculation of long traces of y-matrices in the dimensional regularization scheme ACBX 69 (1992) 173 Taubmann, G. PARACYL (Fortran, 329 lines). Parabolic cylinder functions U(n,x) for natural n and positive xACGO 69 (1992) 415

James, F.
000ACORRECTION 12/11/91 (Fortran). Erratum notice. A review of pseudorandum number generators

ABTK 69 (1992) 486

#### Computer algebra

Takada, K.

KENTARO/KENJIRO (Fortran, 7058 lines). Programs for algebraic calculation of angular momentum coupling

ACGB 69 (1992) 142

Bocko, J.

EQSHELL (Reduce, 460 lines). EQSHELL – a REDUCE-based program for generation of equations of equilibrium for shells

ACGC 69 (1992) 215

#### Condensed matter and surface science

Verbruggen, M.H.W. and J.M.M. de Nijs

CENTIPEDE (C. 7230 lines). Analysis of spectroscopic ellipsometric measure-

ACGG 69 (1992) 201

Schmitz, J., H.-R. Trebin and U. Rössler

TRSS (Fortran, 5207 lines, Manual 75 pages). TRSS: a new version of program

TRS for a different geometry

ACGS 69 (1992) 369

Betrán-López, V. and L. González-Tovany

POWDERSPEC (Fortran, 3725 lines). POWDERSPEC, a program for efficient

simulation of isotropic EPR spectra

ACGX 69 (1992) 397

#### **Electrostatics and electromagnetics**

Yousif, H.A. and E. Boutros

ASMAA (Fortran, 658 lines). A FORTRAN code for the scattering of EM

plane waves by an infinitely long cylinder at oblique incidence

ACGQ 69 (1992) 406

### **Elementary particle physics**

Karimäki, V.

CIRCLEFIT (Fortran, 586 lines). Fast code to fit circular arcs

ACBZ 69 (1992) 133

Kwiatkowski, A., H. Spiesberger and H.-J. Möhring

HERACLES V 4.0 (Fortran, 11042 lines). HERACLES: an event generator for

ep interactions at HERA energies including radiative processes

ACGE 69 (1992) 155

Charchuła, K.

PAKPDF 1.1 (Fortran, 15366 lines). The package PAKPDF 1.1 of parametriza-

tions of parton distribution functions in the proton

ACGU 69 (1992) 360

Kumano, S. and J.T. Londergan

LAG1 (Fortran, 1149 lines). A FORTRAN program for numerical solution of

the Altarelli-Parisi equations by the Laguerre method

ACGR 69 (1992) 373

Block, M.M.

NUPHAZ (Fortran, 511 lines). Monte Carlo phase space evaluation

ACGJ 69 (1992) 459

Morrison, T.P.

POP (Fortran, 2868 lines). POP - an interactive charged particle transport

system design tool

ACGK 69 (1992) 477

#### **Nuclear physics**

Barb, F.D., O. Netoiu, M. Sorescu and M. Weiss

SPECFIT (Fortran, 3216 lines). SPECFIT – an interactive package for

Mössbauer spectra fitting with personal computers

ACGF 69 (1992) 182

Sonzogni, A.A., A.S.M.A. Romo, W.R. Frosch and S.J. Nassiff

STP (Fortran, 728 lines). A code to determine the energy distribution, the

incident energy and the flux of a beam of light ions into a stack of foils ACGM 69 (1992) 429

#### **Optics**

Oleari, C. and G. Formaleoni

COLORJND (C, 4586 lines).  $(\theta, \delta)$  uniform-scale chromaticity diagram

ACGD 69 (1992) 112

Otten, J., A. Bledowski, K.H. Ringhofer and R.A. Rupp

DYNHOLO (Fortran, 3818 lines). Dynamical holographic storage in photore-

fractive crystals

ACGA 69 (1992) 187

Verbruggen, M.H.W. and J.M.M. de Nijs

CENTIPEDE (C, 7230 lines). Analysis of spectroscopic ellipsometric measure-

ments

ACGG 69 (1992) 201

### Plasma physics

Yasar, O. and G.A. Moses

R-MHD (fortran, 8128 lines). R-MHD: an adaptive-grid radiation-magnetohy-

drodynamics computer code

ACGN 69 (1992) 439

## Statistical physics and thermodynamics

Lomba, E. and J.S. Høye

HNCR (Fortran, 2217 lines). HNCR - a program to calculate the structure and

thermodynamics of binary mixtures of charged hard spheres

ACGL 69 (1992) 420